INTERNATIONAL SEARCH REPORT

International application No. PCT/US99/25291

i i			
A. CLASSIFICATION OF SUBJECT MATTER IPC(6): G06F 13/00, 13/38 US CL: 710/101, 102, 103; 709/250			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)			
U.S. : 710/101, 102, 103; 709/250			
Documentation searched other than minimum documentation to the extent truch documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
I .	US 5,764,479 A (CRUMP et al) 09 June 1998, col. 1, lines 31-37, col. 3, line 50-col. 4, line 51, col. 5, lines 29-35, col. 8, lines 25-29, col. 9, lines 38-53		1, 6-10, 11, 16-20
			2-5, 12-15
Y	US 5,781,747 A (SMITH et al) 14 Ju	uly 1998, col. 2, lines 31-55.	2-5, 12-15
	col. 4, lines 7-65		
Purther documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited docum 's: 'T' 'A' document defining the general state of the art which is not considered		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
to be of particular relevance *B* carlier document published on or after the international filing date *X*		"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document such combined with one or more other such document such combined to a person skilled in the art	
 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 			
	ctual completion of the international search	Date of mailing of the international sea	rch report
II JANUARY 2000		07.FEF 2000	
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